

APPENDIX A

RISK ASSESSMENT CODE PROCEDURE FORM

APPENDIX B RISK ASSESSMENT PROCEDURES FOR ORDNANCE AND EXPLOSIVES (OE) SITES

Site Name Twin Parks Estates	_ Rater's Name_Thomas	
Site Location Arlington Texas	Phone Number (314) 3	31-8787
DERP Project # K06TX002801	Organization MVS-ED)-P
Date Completed 26 November 2001	Score1	
OE RISK ASSESSMENT:		
This risk assessment procedure was developed 10. The Risk Assessment Code (RAC) score will be Center, Huntsville (USAESCH), Ordnance and Expremedial action(s) at Formerly Used Defense Sites the best available information resulting from record Disposal (EOD) Detachments actions, field observatinformation is used to assess the risk involved base site. The risk assessment is composed of two factor Personnel involved in visits to potential OE sites shall be composed of the counter of t	e used by the U.S. Army Engine blosives Team (USAESCH-OE) to (FUDS). The risk assessment so searches, reports of Explosive ations, interviews, and measurer ed on the potential OE hazards increasing the potential of the potentia	eering and Support to prioritize the should be based on e Ordnance ments. This identified at the probability.
Part 1. <u>Hazard Severity</u> . Hazard severity categories the worst credible event resulting from personnel exunexploded ordnance.	s are defined to provide a qualit xposure to various types and qu	ative measure of antities of
TYPE OF ORDNANCE: (Circle all that apply)		VALUE
A. Conventional ordnance and ammunition: Medium/large caliber (20mm and larger) Bombs, explosive Grenades, hand or rifle, explosive Landmine, explosive Rockets, guided missile, explosive Detonators, blasting caps, fuzes, boosters, b	oursters	10 10 10 10 10
Bombs, practice (w/spotting charges) Grenades, practice (w/spotting charges) Landmine, practice (w/spotting charges) Small arms, complete round (.22 cal50 ca Small arms, expended	il)	6 4 4 1 0
Practice ordnance (w/o spotting charges) Conventional ordnance and ammunition (largest sir	ngle value)	<u>6</u>
What evidence do you have regarding convention Practice Bombs were found on site during the site	onal unexploded ordnance? _	Expended navy
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B.	Pyrotechnics (for munitions not described above):	VALUE
	Munition (containers) containing White Phosphorus (WP) or other pyrophoric material (i.e., spontaneously flammable)	10
	Munition containing a flame or incendiary material (i.e., Napalm, Triethylaluminum metal incendiaries)	6
	Flares, signals, simulators, screening smokes (other than WP)	4
Pyrot	echnics (select the single largest value)	10
What on sit	evidence do you have regarding pyrotechnics? <u>Possible use of M47 Phosphorus</u> e.	Bombs
C.	Bulk High Explosives (HE) (not an integral part of entional ordnance; uncontainerized):	VALUE
	Primary or initiating explosives (Lead Styphnate, Lead Azide, Nitroglycerin, Mercury Azide, Mercury Fulminate, Tetracene, etc.)	10
	Demolition charges	10
	Secondary explosives (PETN, Compositions A, B, C, Tetryl, TNT, RDX, HMX, HBX, Black Powder, etc.)	8
	Military dynamite	6
	Less sensitive explosives (Ammonium Nitrate, Explosive D, etc.)	3
High 6	explosives (select the largest single value)	_0
What	evidence do you have regarding bulk explosives? None	
D. guide	Bulk propellants (not an integral part of rockets, d missiles, or other conventional ordnance; uncontainerized):	VALUE
	Solid or liquid propellants	6
Prop	ellants	<u>0</u>
What	evidence do you have regarding bulk propellants? None	

E. Chemical Warfare Materiel (CWM) and Radiological Weapons:	VALUE
Toxic chemical agents (choking, nerve, blood, blister)	25
War Gas Identification Sets	20
Radiological	15
Riot Control Agents (vomiting, tear)	5
Chemical and Radiological (select the largest single value)	0
What evidence do you have regarding chemical or radiological? None	
TOTAL HAZARD SEVERITY VALUE (Sum of value A through E (maximum of 61)	<u>16</u>
Apply this value to Table 1 to determine Hazard Severity Category	

TABLE 1 HAZARD SEVERITY

DESCRIPTION	CATEGORY	HAZARD SEVERITY VALUE
CATASTROPHIC CRITICAL		21 and/or greater 10 to 20
MARGINAL		5 to 9
NEGLIGIBLE	IV	1 to 4
**NONE	V	0
*Apply Hazard Severity Category	ory to Table 3	
**If hazard severity value is 0, and use a RAC score of 5 to d	you do not need to complet etermine your appropriate a	e Part II of this form. Proceed to Part III

PART II. <u>Hazard Probability</u>. The probability that a hazard has been, or will be, created due to the presence and other rated factors of unexploded ordnance or explosive materials on a formerly used Department of Defense (DoD) site.

AREA, EXTENT, ACCESSIBILITY OF OE HAZARD (Circle all that apply)

A. Locations of OE hazards:	VALUE
On the surface	5
Within tanks, pipes, vessels, or other confined areas	4
Inside walls, ceilings, or other building/structure	3
Subsurface	2
Location (select the single largest value)	5
What evidence do you have regarding location of OE? Expended Practice Bo	mbs found on Surface.
B. Distance to nearest inhabited location/structure likely to be at risk from OE hazard (road, park, playground, building, etc.)	VALUE
Less than 1,250 feet 1,250 feet to 0.5 mile 0.5 mile to 1.0 mile 1.0 mile to 2.0 Miles Over 2 miles	5 4 3 2 1
Distance (select the single largest value)	5
What are the nearest inhabited structures/buildings? Houses	
C. Number(s) of building(s) within a 2-mile radius measured from the OE hazard area, not the installation boundary.	VALUE
26 and over 16 to 25 11 to 15 6 to 10 1 to 5 0	5 4 3 2 1 0
Number of buildings (select the single largest value)	5
Narrative: Area is part of a new sub-division	and the second s

F. Site Dynamics. This deals with site conditions are subject to change in the future, but may be stable at the present. Examples would be excessive soil erosion on beaches or streams, increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility.

VALUE

Expected None anticipated	5 0
Site dynamics (select value)	5_
Describe the site dynamics:	Site is being developed as a sub-division

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TOTAL HAZARD PROBABILITY VALUE (sum of largest values for A through F (maximum of 30)

30

Apply this value to Hazard Probability Table 2 to determine the Hazard Probability Level.

TABLE 2 HAZARD PROBABILITY

DESCRIPTION	<u>LEVEL</u>	HAZARD PROBABILITY VALUE
FREQUENT		27 or greater
PROBABLE	В	21 to 26
OCCASIONAL	С	15 to 20
REMOTE	, D	8 to 14
IMPROBABLE	E	less than 8

^{*}Apply Hazard Probability Level to Table 3.

Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table. Enter the results of the Hazard Probability and Hazard Severity values.

TABLE 3

PROBABILITY LEVEL	FREQUENT A	PROBABLE B	OCCASIONAL C	REMOTE D	IMPROBABLE E
SEVERITY CATEGORY:			, in a single to \$1.	<u>, and a superfective states are superfective states are superfective states and a superfective states are s</u>	dagan ing pagangan ang kanala
CATASTROPHIC I	1	1	2	3	4
CRITICAL II	1	2	.3	4	5
MARGINABLE III	2	3	4	4	5
NEGLIGIBLE IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC)

RAC 1	Expedite INPR, recommending further action by USAESCH-Immediately call USAESCH-OE-S (comm 256-895-1582/1598).
RAC 2	High priority on completion of INPR-Recommend further action by USAESCH.
RAC 3	Complete INPR-Recommend further action by USAESCH.
RAC 4	Complete INPR-Recommend further action by USAESCH.
RAC 5	Usually indicates that No DOD Action Indicated (NDAI) is necessary, Submit NDAI and RAC to USAESCH.

PART IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made. <u>During the site visit, workers installing streets and utilities were able to show us two Practice Bombs that had been dug up. Other Practice bombs had been dug up, but were no longer on site.</u>